Volume of Rectangular Prisms

Find the volume of each rectangular prism.

a. volume: __________________

b. volume: __________________

c. volume: __________________

d. volume: __________________

e. volume: __________________

f. volume: __________________

g. $l = 10 \text{ m}$
   $w = 4 \text{ m}$
   $h = 8 \text{ m}$
   volume: __________________

h. $l = 6 \text{ mm}$
   $w = 7 \text{ mm}$
   $h = 3 \text{ mm}$
   volume: __________________

i. $l = 9 \text{ km}$
   $w = 5 \text{ km}$
   $h = 7 \text{ km}$
   volume: __________________

j. Paul and Jim work at a t-shirt factory. They pack t-shirts in boxes and send them to stores. Jim has a box that measures 2 ft by 4 ft by 6 ft. Paul has a box that measures 3 ft by 5 ft by 3 ft. Whose box can hold more t-shirts?

Jim's box (48 ft³) > Paul's box (45 ft³)
**Volume of Rectangular Prisms**

Find the volume of each rectangular prism.

**a.**
- Volume: $18 \text{ units}^3$

**b.**
- Volume: $24 \text{ units}^3$

**c.**
- Volume: $32 \text{ units}^3$

**d.**
- Volume: $216 \text{ cm}^3$

**e.**
- Volume: $150 \text{ in.}^3$

**f.**
- Volume: $84 \text{ ft}^3$

**g.**
- $l = 10 \text{ m}$
- $w = 4 \text{ m}$
- $h = 8 \text{ m}$
- Volume: $320 \text{ m}^3$

**h.**
- $l = 6 \text{ mm}$
- $w = 7 \text{ mm}$
- $h = 3 \text{ mm}$
- Volume: $126 \text{ mm}^3$

**i.**
- $l = 9 \text{ km}$
- $w = 5 \text{ km}$
- $h = 7 \text{ km}$
- Volume: $315 \text{ km}^3$

**j.**
- Paul and Jim work at a t-shirt factory. They pack t-shirts in boxes and send them to stores. Jim has a box that measures 2 ft by 4 ft by 6 ft. Paul has a box that measures 3 ft by 5 ft by 3 ft. Whose box can hold more t-shirts?  
  - Jim’s box (48 ft$^3$) > Paul’s box (45 ft$^3$)